

Electronic Supporting Information

for

Improvement of durability of an organic photocatalyst in selective oxygenation of *p*-xylene by addition of a Cu(II) complex

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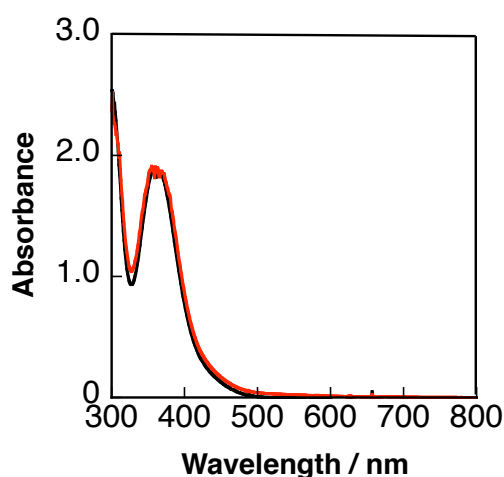


Fig. S1 UV-vis spectra of an NaI-saturated acetonitrile solution (2.0 mL) to which an acetonitrile solution containing 7.6 mM H₂O₂ (20 μL, black) or an acetonitrile solution containing 1.0 mM [(tmpa)Cu^{II}]²⁺ and 7.6 mM H₂O₂ (20 μL, red) was added. The absorption band appeared at 361 nm is ascribed to formation of I₃[−] ($\varepsilon = 2.5 \times 10^4 \text{ M}^{-1} \text{ cm}^{-1}$) by following reactions.

